IN THE CLAIMS

Claims 4 and 6-10 have been amended as follows:

- 4 (Amended). A synthetic peptide according to any one of claim 1, selected from:
 - (i) peptides pep1, pep2, and pep3 of the sequences:
 - (**pep1**) Ile-Val-Leu
- (pep2) Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID NO:1)
 - (pep3) Arg-Met-Leu-Thr (SEQ ID NO:2)
- (ii) peptides obtained from pep2 by deletion of one or more amino acid residues;
- (iii) peptides obtained by addition to peptides (i) or
 (ii) of one or more natural or non-natural amino acid
 residues;
- (iv) peptides obtained by replacement of one or more amino acid residues of peptides (i) to (iii) by the corresponding D-stereomer, by another natural amino acid residue or by a non-natural amino acid residue;
 - (v) chemical derivatives of the peptides (i) to (iv);
 - (vi) cyclic derivatives of peptides (i) to (v);
- (vii) dual peptides consisting of two of the same or different peptides (i) to (vi), wherein the peptides are covalently linked to one another directly or through a spacer; and
- (viii) multimers comprising a number of the same or different peptides (i) to (vi).
- 6 (Amended). A synthetic peptide according to claim 5, selected from:

(pep1) Ile-Val-Leu

(pep4) Asn-Ile-Asn-Val-Ile-Val-Leu (SEQ ID NO:3),

(pep5) Ile-Val-Leu-Glu-Leu-Lys-Gly (SEQ ID NO:4),

(pep6) Asn-Val-Ile-Val-Leu (SEQ ID NO:5)

(pep7) Ala-Val-Leu

(pep8) Ile-Ala-Leu

(pep9) Ile-Val-Ala

(pep10) Glu-Val-Leu

(pep11, linear) and (pep12, cyclic) Cys-Ile-Val-Leu-Ala-Cys (SEQ ID NO:6) and,

(pep13, linear) and (pep14, cyclic) Cys-Ile-Val-Leu-Ala-Ala-Cys (SEQ ID NO:7).

7 (Amended). The synthetic peptide Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID NO:1) (pep2), and derivatives thereof according to claim 4, obtained by:

- (a) elongation by up to 4 further amino acid residues at the C and/or N terminal ends, preferably according to the natural sequence of IL-2;
- (b) substitution of the Glu residue by a natural or non-natural charged or polar charged amino acid residue, preferably selected from Lys, Arg, Asp, Gln, Asn;
- (c) substitution of the Phe residue by a natural or non-natural hydrophobic aliphatic or aromatic amino acid residue, preferably selected from Ala, Val, Ile, Leu, Tyr, Trp, Phe, Met, Nle;
- (d) substitution of the Leu residue by a natural or non-natural hydrophobic aliphatic or aromatic amino acid

residue, preferably selected from Ala, Val, Ile, Leu, Tyr, Trp, Phe, Met, Nle;

- (e) substitution of the important Asn residue by a hydrophilic, non-charged, aliphatic natural or non-natural amino acid residue such as Gln;
- (f) substitution of the Arg residue by a positively charged, natural or non-natural amino acid residue, preferably selected from Lys, Orn, homoArg;
- (g) substitution of the Trp residue by a natural or non-natural hydrophobic, aliphatic or aromatic, amino acid residue, preferably selected from Tyr, Ile, Leu, Nle, Tic, Phe, 4-phenyl-Phe, 4-methyl-Phe;
- (h) substitution of the Ile residue by a natural or non-natural hydrophobic, aliphatic or aromatic, amino acid residue, preferably selected from Tyr, Phe, Leu, Nle, Tic;
- (i) substitution of the Thr residue by an aliphatic hydrophobic amino acid residue such as Ala, Ile, Leu, or a hydroxy- or thio-containing amino acid residue preferably selected from Cys, Ser;
- (j) truncation by up to 4 amino acid residues from either the C or N terminal;
 - (k) amidation of the C-terminal Thr;
 - (1) cyclization of pep2 or of any peptide of (a) to(k); and
 - (m) any combination of (a) to (1).
- 8 (Amended). A peptide according to claim 7, selected from:

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Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID (pep2) NO:1) Ile-Val-Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr (pep15) (SEQ ID NO:8) Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr-Phe-Cys (pep16) (SEQ ID NO:9) Ala-Thr-Ile-Val-Glu-Phe-Leu-Asn-Arg-Trp-(pep17) Ile-Thr (SEQ ID NO:10) Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr-Phe-Cys-(pep18) Gln-Ser (SEQ ID NO:11) Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID NO:12) (pep19) Arg-Trp-Ile-Thr (SEQ ID NO:13) (pep20) Glu-Phe-Leu-Asn (SEQ ID NO:14) (pep21) (pep22) Ala-Phe-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID NO:15) Lys-Phe-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID (pep23) NO:16) (pep24) Glu-Ala-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID NO:17) Glu-Val-Leu-Asn-Arg-Trp-Ile-Thr (SEQ ID (pep25) NO:18) Glu-Phe-Ala-Asn-Arg-Trp-Ile-Thr (SEQ ID (pep26) NO:19) (pep27) Glu-Phe-Leu-Ala-Arg-Trp-Ile-Thr (SEQ ID NO:20) (pep28) Glu-Phe-Leu-Asn-Ala-Trp-Ile-Thr (SEQ ID NO:21)

)

(pep29) Glu-Phe-Leu-Asn-Glu-Trp-Ile-Thr (SEQ ID

NO:22)

(pep30) Glu-Phe-Leu-Asn-Arg-Ala-Ile-Thr (SEQ ID

NO:23)

(pep31) Glu-Phe-Leu-Asn-Arg-Trp-Ala-Thr (SEQ ID

NO:24)

(pep32) Glu-Phe-Leu-Asn-Arg-Trp-Ile-Ala (SEQ ID

NO:25)

(pep33) Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr-NH₂ (SEQ ID NO:26) and,

(pep34, linear) and (pep35, cyclic) Cys-Glu-Phe-Leu-Asn-Arg-Trp-Ile-Thr-Ala-Cys (SEQ ID NO:27).

- 9 (Amended). The synthetic peptide Arg-Met-Leu-Thr (SEQ ID NO:2) (pep3), and derivatives thereof according to claim 4, obtained by:
- (a) elongation by up to 4 further amino acid residues at the C and/or N terrminal end, preferably according to the natural sequence of IL-2;
- (b) substitution of the Arg residue by a natural or non-natural positively charged amino acid residue, preferably selected from Lys, Orn, homoArg, diaminobutyric acid;
- (c) substitution of the Met residue by a natural or non-natural hydrophobic, aliphatic or aromatic, amino acid residue, preferably selected from Phe, Tyr, Ile, Leu, Nle, Tic;
- (d) substitution of the Leu residue by a natural or non-natural hydrophobic, aliphatic or aromatic, amino acid residue, preferably selected from Phe, Tyr, Nle, Tic;

- (e) substitution of the Thr residue by an aliphatic hydrophobic amino acid residue such as Ala, Ile, Leu, or a hydroxy- or thio-containing amino acid residue such as Ser, Cys;
 - (f) amidation of the C-terminal Thr residue;
- (g) cyclization of pep3 or of any peptide of (a) to
 (f); and
 - (h) any combination of (a) to (g).
- 10 (Amended). A peptide according to claim 9, selected from:

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(pep3) Arg-Met-Leu-Thr (SEQ ID NO:2)
(pep36) Ala-Met-Leu-Thr (SEQ ID NO:28)
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(pep37) Arg-Ala-Leu-Thr (SEQ ID NO:29)

(pep38) Arg-Met-Ala-Thr (SEQ ID NO:30)

(pep39) Arg-Met-Leu-Ala (SEQ ID NO:31)

(pep40) Lys-Met-Leu-Thr (SEQ ID NO:32)

(pep41) Arg-Val-Leu-Thr (SEQ ID NO:33)

(pep42) Arg-Met-Leu-Thr-NH₂ (SEQ ID NO:34)

(pep43) Pro-Lys-Leu-Thr-Arg-Met-Leu-Thr (SEQ ID

NO:35)

(pep44) Arg-Met-Leu-Thr-Phe-Lys-Phe-Tyr (SEQ ID NO:36) and,

(pep45, linear) and (pep46, cyclic) Cys-Arg-Met-Leu-Thr-Ala-Cys (SEQ ID NO:37).